45447 .

S/892/62/000/001/009/022 B102/B186

26.2246

Larichev, A. V., Levchenko, V. P., Osanov, D. P.

TITLE:

AUTHORS:

The effect of channels in the shield on the attenuation of

the gamma radiation of extended sources

SOURCE:

Moscow. Inzhenerno-fizioheskiy institut. Voprosy dosimetriii zashchity ot izlucheniy, no. 1, 1962, 66-73

TEXT: The effect of conical or cylindrical shield channels is calculated for γ -ray sources in the shape of a truncated cone or of a line. In the case of the truncated cone covered with a shield containing the conical channel, the dose rate at point A is calculated by

$$P(a, pf) = \frac{2\pi kg}{p_0 H} (1 - \cos a - \Phi)(\mu_0 H) + \cos a (\Phi(pf \sec a) - \frac{p_0 H}{p_0 H} = 1, 8 \text{ m S;}$$

$$-\Phi[(\mu f + \mu_0 H) \sec a] + \Phi(\mu_0 H \sec a)) + \frac{1}{2} + \cos \phi (\Phi[(\mu f + \mu_0 H) \sec \phi] - \Phi(\mu f \sec \phi))), \qquad (1)$$

$$= -5^{\circ}, 10^{\circ}, 20^{\circ} \text{ m SO}^{\circ}.$$

Card 1/3

S/892/62/000/001/009/022 E102/B186

The effect of channels in the ...

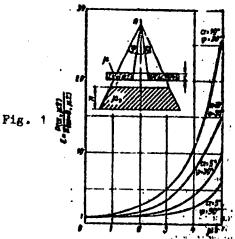
k is the gamma constant of the isotope, q the specific source activity and Φ (x) King's function. The μt -dependence of the reduced dose rate obtained for $\mu_0H=1$ is shown in Fig.1; $P(\alpha=0,\mu t)$ denotes the dose rate at A without shield channel. $E(\alpha)$ is also calculated. For a linear source and a cylindrical channel the reduced dose rates

$$s = \frac{P}{P_0} = \frac{\int_0^{\infty} - pf(s) ds}{\int_0^{\infty} - pf(s) ds}; \qquad (2) \qquad s' = \frac{P}{P_0'} = \frac{\int_0^{\infty} B(f) e^{-pf(s)} ds}{\int_0^{\infty} B(f) e^{-pf(s)} ds}; \qquad (3)$$

are calculated, where P and P' are the dose rates at any point behind the shield, without and with γ -ray scattering taken into account; P_0, P_0^* denote these dose rates if no channel exists; $t(\alpha)$ and $t'(\alpha)$ are the γ -ray path lengths without and with channel $t(\alpha)$ -toseca, t_0 is the shield thickness; μ is the linear γ -ray attenuation factor; B(t), B(t') are the dose build-up factors. Numerical calculations were made for $\mu t_0 = 1,3,5$, $\mu R = 0.2, 0.5, 0.7, 1.0, and 3.0 and <math>\theta = 30, 60$ and 90^0 ; θ is the angle Card 2/3

The effect of channels in the ... S/892/62/000/001/009/022

between channel axis and shield plane. For lead, steel and water and $\cos^{60}\gamma$ -rays (1.25 Mev) the theoretical results were partly compared with experimental data. For $\theta=90^\circ$ agreement was close, for 60° a divergence was observed due to γ -ray reflections from the channel walls. There are 8 figures.



Card 3/3

\$/796/62/000/003/005/019

AUTHOR: Osanov, D.P.

Dependence of the accumulation (storage) factors on the location of a TITLE:

shielding barrier between source and detector.

Moscow. Inzhenerno-fizicheskiy institut. Pribory i metody analiza SOURCE:

izlucheniy. no.3. 1962, 53-60.

The location of a shielding barrier between source and detector affects the magnitude of the accumulation dose factor. The paper reports the results of an analytical investigation of this placement effect under the following premises: (1) The y-source is punctuate and has a single energy; (2) the barrier area is infinite; (3) single scattering of the \gamma-rays occurs in the shield; (4) source, shield, and detector operate in a vacuum. The geometry of the experiment and all definitions are illustrated schematically. A differential expression is provided for the intensity of the dose behind a shield as a function of the power of a punctuate and collimated radiation pencil directed at the shield at a prescribed angle and which undergoes a single scattering within the shield through a certain deflection angle. The expression includes the various distances involved in the configuration geometry; the attenuation coefficient for the initial and the scattered energy; the number of

Card 1/3

Dependence of the accumulation (storage) factors... S/796/62/000/003/005/019

electrons per cm3; the Klein-Nishina function which expresses the intensity of radiation scattered in a given direction for a unit solid angle, unit initial intensity, and one electron; the true absorption coefficient of the air for the scattered-radiation energy; and the energy equivalent of one roentgen. Calculation formulas are developed. For a given shield thickness $\mu_0 d=2$, the dose intensity is plotted versus the collimation angle for 3 cases: Shield placed adjacent to the detector, shield placed adjacent to the source, shield placed midway between source and detector. At zero angle the 3 curves coincide. With growing angle the first curve (shield near detector) diminishes steeply, since only the quanta contained in the angular range of 0-30 contribute substantially; hence, there is no need for maintaining constant thickness throughout the shield, and a variable thickness can be calculated from the curve to obtain a given desired shielding effectiveness with a minimal use of material. In the second instance (shield near source) the curve drops from 0-10, then rises to near 250, then drops again. Interpretation: At small angles the nonscattered quanta miss the detector, but the number of scattered quanta remains small, since the path length along which scattering in the shield is possible is viewed under a very small angle. This angle grows in the 5-250 angular range, and with it grows the probability of scattered-quanta impingement. At yet greater angles, radiational absorption prior to and following scattering takes its toll. These and other analogous curves are used to calculate the spectral and angular

Card 2/3

Dependence of the accumulation (storage) factors... 5/796/62/000/003/005/019

distributions of a singly-scattered radiation beyond a shield, and to calculate the accumulation factor of the shield. One example of a moving shielding medium consists in the translation of the atmospheric compression shock wave following an atomic explosion, a phenomenon explored by Leypunskiy, O.I., in his "Gamma izlucheniye atomnogo vzryva - The gamma radiation of an atomic explosion." Moscow. Atomizdat, 1959. A necessary extension of the present punctuate-source analysis to the case of an extended source is desirable, but fraught with difficulties. There are 3 figures, 1 (unnumbered) table, and 5 references (the one cited Russian-language Soviet book and 4 English-language U.S. papers).

ASSOCIATION: None given.

Card 3/3

S/089/62/012/006/013/019 B102/B104

26.2240

AUTHORS:

Osanov, D. r., Kovalev, Ye. Ye.

TITLE:

Absorption dose factor for a cylindrical source in the

presence of a shield

PERIODICAL:

Atomnaya energiya, v. 12, no. 6, 1962, 528

TEXT: The results of previous work (Atomnaya energiya, 10, no. 5, 515, 1961) are extended to a cylindrical source located behind a plane shield with a thickness of $\mu_1 d\,.\,$ Using the denotations from the previous work, the absorption dose factor is obtained as

 $S = 1 + \frac{1 + 0.75 \ \mu R}{2} (1.5 + 1/p) f(\mu_1 d) \epsilon$. The function $f(\mu_1 d)$ is tabulated for $\mu R = 1, 3, 5, 7, 10, p = 1.5, 2, 3, 5, 10, and <math>\mu_1 d = 0, 1, 3, 5, 7, 10$

10. It is virtually independent of the relative height of the cylinder. The relation obtained for S is valid for single scattering of radiation. Multiple scattering can be taken into account by using the method of equivalent absorption length. The factor $B(\mu_1 1)/B(\mu_1 \bar{t})$ has to be introduced,

Card 1/2 * NOT ABSTRACTED

Absorption dose factor for ...

S/089/62/012/006/013/019 B102/B104

where B is the dose accumulation factor, and μ_1 1 and μ_1 t are the equivalent absorption lengths for a hollow and a solid cylinder, respectively. There is 1 table.

SUBMITTED:

November 25, 1961

Card 2/2

38992 \$/089/62/013/001/008/012 B102/B104

21.5250

Aovalev, Ye. Ye., Osanov, D. P.

TITLE:

The volume radiation of a gas-filled source behind a plane shield

radiobloal: Atomnaya energiya, v. 13, no. 1, 1962, 68

That: The attenuation factor of the gamma radiation emitted by a cylindrical gas-filled source was calculated under the assumption that the self-absorption in the source could be neglected. The calculations were made using the formulas $P=2P_{\nu}qRS(p,k,\mu_1R,\mu_2d)B(\mu_2t)$ (1) for the dose rate in

the source plane behind the shield, $K = \frac{S(p, k, \mu_1 R, \mu_2 d = 0)}{S(p, k, \mu_1 R, \mu_2 d) B(\mu_2 l)} = \frac{K'(p, k, \mu_2 d)}{B(\mu_2 l)}$ (2)

for the attenuation factor in the shield, and

 $K'(p, k, \mu_2 d) = A e^{1.035\mu_2 d} + (1 - A) e^{0.85\mu_2 d}.$ (3)

as an approximate relation holding for the attenuation factor K' if multiple scattering in the shield is neglected. B is the build-up factor of the scattered radiation for a point source; \(\mu_2 = \ln K'\). The remaining Card 1/2



The volume radiation ...

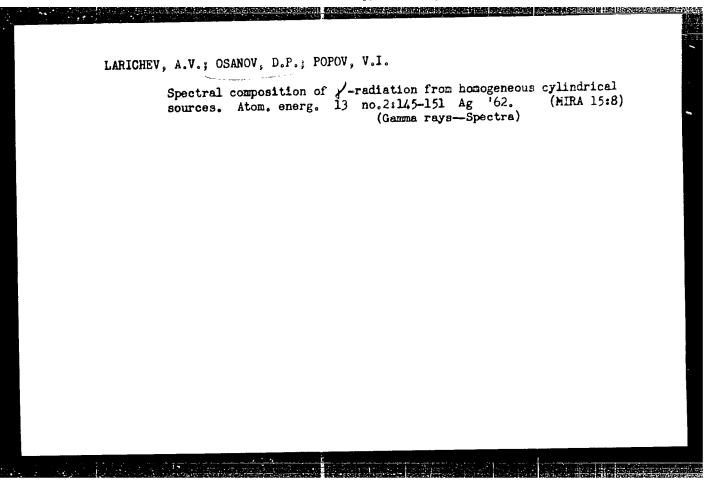
S/089/62/013/001/008/012 B102/B104

definitions are given in "Atomnaya energiya", v. 8, no. 4, 374, 1961. The coefficient A, which depends only on source parameters, is tabulated. The accuracy of Eq.(3) is 10-15%. There is 1 table.

SUBMITTED: December 18, 1961

Card 2/2

110



8/2892/63/000/002/0051/0065

ACCESSION NR: AT4021251

AUTHOR: Osanov, D. P.

TITLE: Experimental data on the shielding attenuation of y radiation of extended

sources

SOURCE: Voprosy* dozimetrii i zashchity* ot izlucheniy, no. 2, 1963, 51-65

TOPIC TAGS: 7 radiation, energy scattering, radiation dose, point source,

attenuation

ABSTRACT: This paper presents results of experiments on the investigation of shielding attenuation of γ radiation from solid, hollow, and gas filled cylindrical sources. The results are plotted in graphs. A number of measurements were made to determine the dependence of the multiple attenuation factor of γ rays on the location of the shield between the source and the detector. Based on experimental data, the author arrives at the following general conclusions. With an increase in the radius of the cylindrical source, the fraction of γ rays which penetrate the protective barrier in inclined directions increases, which leads to a stronger attenuation of radiation. An increase in the multiple factor of attenuation depends on the thickness and material of the shield. The physical parameters, the atomic

Card 1/2

ACCESSION NR: AT4021251

number and the density of the extended source, have an effect on the attenuation of γ radiation in the shield, since these parameters basically define the self-absorption and the self-scattering of radiation. The processes of scattering absorption of γ rays in the source itself are not related to the character of γ ray attenuation in the shield; the main factor which determines the attenuation of radiation in the shield is the spatial distribution of the active substance, i.e., the geometry of the source. When $\mu_0 x > 2$, the soft radiation formed due to the scattering in the source, amounts to an insignificant fraction of the total radiation beyond the shield. "I would like to express my gratitude to A. I. Bondar' and Yu. P. Kayurin for their aid in the execution of the experiments." Orig. art. has: 6 formulas, 12 figures, and 3 tables.

ASSOCIATION: Moskovskiy inzhenerno-fizicheskiy institut (Moscow Physics and Engineering Institute)

SUBMITTED: 00

DATE ACQ: 06Apr64

ENCL: 00

SUB CODE: PH, NS

NO REF SOV: 006

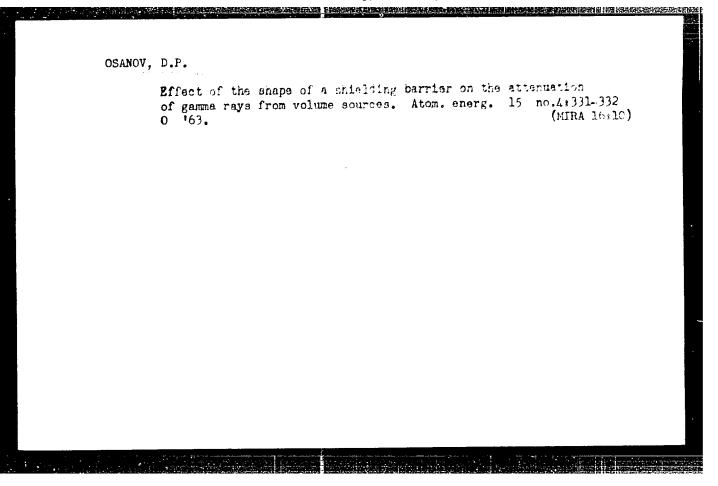
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"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238

RADZIYEVSKIY, G.B.; OSANOV, D.P.

Depth dose distribution of absorbed energy from nonmonoenergetic electrons. Vop.doz. i zashch. ot izluch. no.3:125-138 '6a. (MIRA 18:2)

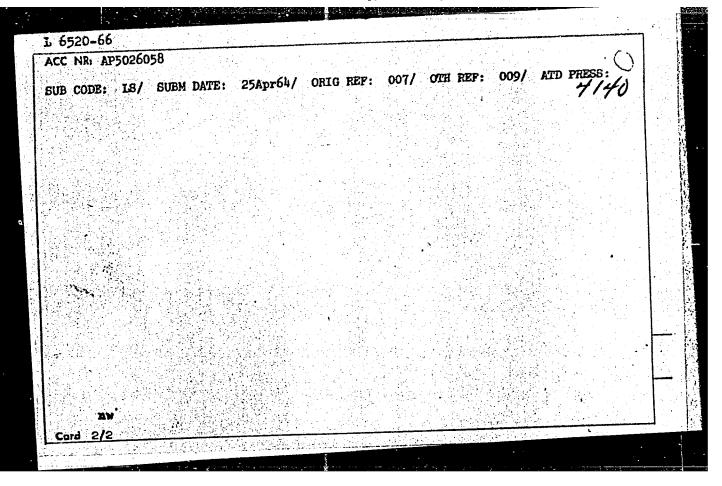
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COMMON, D.P.; KOV 199, Ye.Ye. ROMMIYEVOKIY, G.B.

These domain of a ctron bremsetrableing within the earth; the radiation belt. Vop.doz. / zachch. of izluch. no.3:139-11 (M.R.A. 181.)
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"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238

AUTHOR: Kovalev, Ye. Ye.; Osanov, D. P.; Radziyevskiy, G. B.; Mel'nik, A. D. ORG: none TITLE: Protection of the cosmonaut from electrons and bremsstrahlung radiation in the earth's radiation belt SOURCE: Kosmicheskiye issledovaniya, v. 3, no. 5, 1965, 782-788 OPPIC TAGS: radiation protection, manned space flight, radiation biologic effect, electron, bremsstrahlung, absorbed dose, tissue dose, radiation dosimetry ESTRACT: The authors consider methodological problems in calculating the protection of cosmonauts from electron and bremsstrahlung irradiation in the earth's radiation elet. Among these problems is the selection of criteria for evaluating the radiation azard and geometrical peculiarities of protective structures. A calculation is protect. Experimental data on the depth distribution of electron doses in materials of ow atomic number are used in this calculation. The possibility of using a single use distribution for electrons in an energy interval up to 3 Mev is demonstrated. It is protective layer. Orig. art. has: I figures. UDC: 628.58:629.198.621	L 6520-66 FSS-2/EWT(1)/EWT(m)/A ACC NR: AP5026058	FS(v)-3/EEC(k)-2/FCC/EWA(d)/EWA(h) TT/DD/G SOURCE CODE: UR/0293/65/003/005/0782/07	₩:
TITIE: Protection of the cosmonaut from electrons and bremsstrahlung radiation in the earth's radiation belt SOURCE: Kosmicheskiye issledovaniya, v. 3, no. 5, 1965, 782-788 MOPIC TAGS: radiation protection, manned space flight, radiation biologic effect, electron, bremsstrahlung, absorbed dose, tissue dose, radiation dosimetry BSTRACT: The authors consider methodological problems in calculating the protection of cosmonauts from electron and bremsstrahlung irradiation in the earth's radiation elt. Among these problems is the selection of criteria for evaluating the radiation azard and geometrical peculiarities of protective structures. A calculation is prosed for the protection of a cosmonaut situated outside a spacecraft in a radiation over a storic number are used in this calculation. The possibility of using a single constraint of the protection of electrons in an energy interval up to 3 Mev is demonstrated. It is a protective layer. Orig. art. has: 4 figures. [CD]	MUTHOR: Kovalev, Ye. Ye.; Osanov, D	D. P.; Radziyevskiy, G. B.; Mel'nik, A. n	88
COURCE: Kosmicheskiye issledovaniya, v. 3, no. 5, 1965, 782-788 COPIC TAGS: radiation protection, manned space flight, radiation biologic effect, electron, bremsstrahlung, absorbed dose, tissue dose, radiation dosimetry ESTRACT: The authors consider methodological problems in calculating the protection of cosmonauts from electron and bremsstrahlung irradiation in the earth's radiation elt. Among these problems is the selection of criteria for evaluating the radiation azard and geometrical peculiarities of protective structures. A calculation is prosed for the protection of a cosmonaut situated outside a spacecraft in a radiation ovatomic number are used in this calculation. The possibility of using a single use distribution for electrons in an energy interval up to 3 Mev is demonstrated. It is a protective layer. Orig. art. has: I figures.	AG: Hone		
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f cosmonsuts from electron and bremsstrahlung irradiation in the earth's radiation elt. Among these problems is the selection of criteria for evaluating the radiation azard and geometrical peculiarities of protective structures. A calculation is prosed for the protection of a cosmonaut situated outside a spacecraft in a radiation elt. Experimental data on the depth distribution of electron doses in materials of ese distribution for electrons in an energy interval up to 3 Mev is demonstrated. Is a protective layer. Orig. art. has: 4 figures.	OPIC TAGS: radiation protection, ma lectron, bremsstrahlung, absorbed do	anned space flight, radiation biologic effect, ose, tissue dose, radiation desimptor	
se distribution for electrons in an energy interval up to 3 Mev is demonstrated. Is presented are evaluations of bremsstrahlung tissue doses emittable by electrons a protective layer. Orig. art. has: 4 figures. [CD]	cosmonsuts from electron and brems lt. Among these problems is the secard and geometrical peculiarities sed for the protection of a cosmonal lt. Experimental data on the depth watomic number are used in the depth.	odological problems in calculating the protection estrahlung irradiation in the earth's radiation election of criteria for evaluating the radiation of protective structures. A calculation is product situated outside a spacecraft in a radiation distribution of electron doses in materials and	
UDC: 628.58:629.198.621	se distribution for electrons in an so presented are evaluations of brem a protective layer. Orig. art. has	energy interval up to 3 Mev is demonstrated. msstrahlung tissue doses emittable by electrons if figures.	
	1/2	UDC: 628.58:629.198.621	

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ENG(1)/ENT(m)/ENG(s)-2/EFF(n)-2/ENG(m)/ENF(1)/ENA(h)/ENA(1) Pc-L/ UR/0170/65/008/006/0807/0814 ACCESSION NR: AUTHOR: Osanov, D. TITLE: Temperature distribution in gamma shielding Inzhenerno-fizicheskiy zhurnal, v, 8, no. 6, 1965, 807-814 TOPIC TAGS: concrete, concrete shielding, gamma radiation, gamma radiation shielding, gamma shielding, temperature distribution ABSTRACT: A method is presented for calculating the temperature distribution in the shielding against gamma-radiation based on the solution of a steady-state heatconduction equation with boundary conditions of the third kind. The temperature distribution is attained for plane isotropic and plane monodirectional radiation sources in concrete shieldings of various thicknesses. It was found that boundary conditions have a substantial effect on the distribution of temperature within the shielding. Scattering of gamma-rays inside the concrete shielding results in an increase of temperature. The y-radiation beam geometry has a lesser effect on temperature distribution than the boundary conditions and the scattering. The increase in the thickness of the shielding worsens the heat removal from interior portions of the shielding block. The results obtained make it possible to evaluate

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238

ACCESSION NR: AP5016682 the approximate safety conditions for concrete shielding and to estimate the heating which may develop in shieldings surrounding intense gamma-radiation sources. [BP] Orig. art. has: 11 formulas and 3 figures.									
ASSOCIATION: Institut biofiziki			Institute)						
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MIKHAYLOV, Lev Mikhaylovich; AREF'YEVA, Zinaida Semenovna; OSANOV, D.P., red.

[Tables and nomograms to calculate shielding from gamma rays; point sources] Tablitsy i nomogrammy dlia rascheta zashchity ot gamma-luchei; tochechnye istochniki. Moskva, Meditsina, 1965. 132 p. (MIKA 18:9)

E

<u>L 29571-66</u> EWT(m) ACC NR: AP6012876

SOURCE CODE: UR/0205/66/006/002/0298/0307

AUTHOR: Radziyevskiy, G. B.; Osanov, D. P.

ORG: none

TITLE: Distribution of absorbed energy in depth in materials made of light atoms and irradiated with accelerated electrons having energies of $0.4-1.2~{\rm Mev}$

SOURCE: Radiobiologiya, v. 6, no. 2, 1966, 298-307

TOPIC TAGS: electron beam, electron distribution, electron radiation, beryllium, aluminum, plexiglass, celluloid

ABSTRACT: In connection with problems of dosimetry of accelerated electrons, the authors determined the depth distributions of the absorbed energy in materials made of light atoms (e.g., aluminum, beryllium, plexiglass, celluloid) for the geometry of an "infinitely wide" electron beam. Measurements were made of the relative dose distributions in several materials with a normal incidence of the beam of electrons with energies in the 0.4-1.2 MeV range. The partially contradictory data given in the literature on

Card 1/2

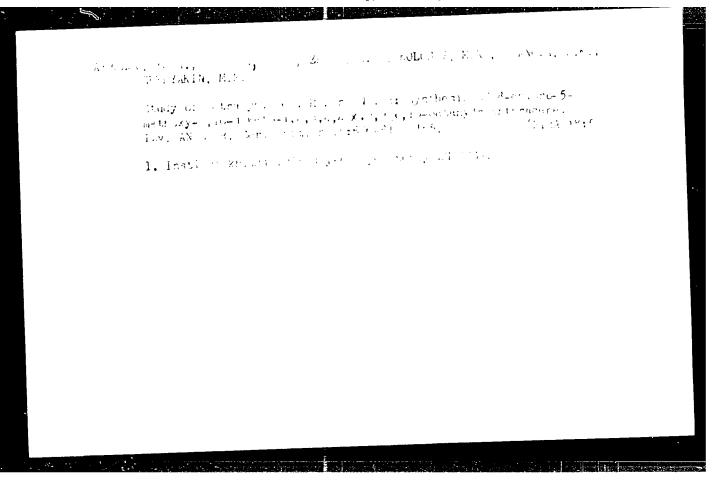
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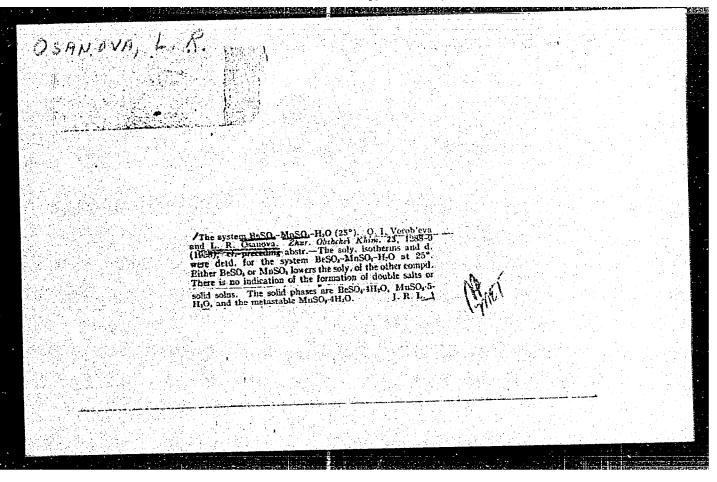
L 29571-66 ACC NR: AP6012876

dose distributions at normal incidence have been refined. For some materials measurements were made of the relative dose distributions at a beam angle of incidence in the zero to 60° range. The disappearance of the peaks on dose curves was detected on increasing the angle of incidence from zero to 60°, and an explanation is offered for this phenomenon. The question of setting up norms for relative dose distributions has been examined, i.e., the question of determining the absolute doses corresponding to the prescribed intensity of the electronic beam on the sample. The standards proposed require the knowledge of the dose or energy coefficients of the back scattering of electrons. Dose and energy coefficients have been determined for some light atom materials in the 0.4-1.0 MeV energy range. The authors express their gratitude to A. I. Fomichev, Z. F. Ponomareva, and A. D. Mel'nik who participated in taking the measurements, as well as to P. Ya, Glazunov and N. I. Vitushkin for providing the opportunity of working on the accelerator. Orig. art.

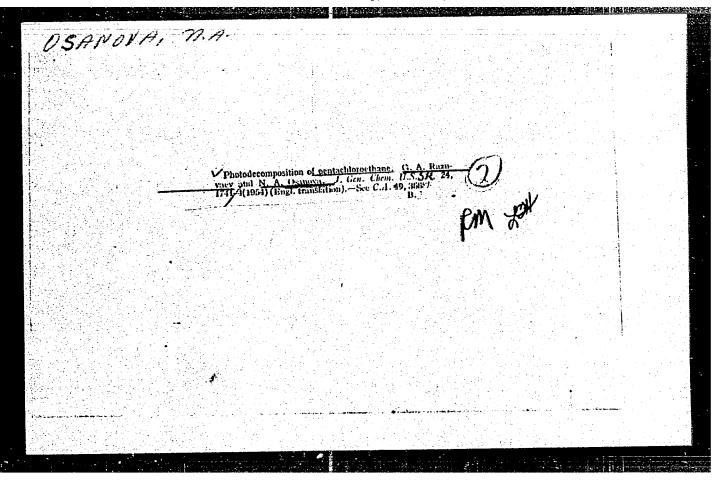
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"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238



OSANOVA, N.A.

USSR/Chemistry - Photo-decomposition

Card 1/1 Pub. 151 - 13/37

Authors : Razuvayev, G. A., and Osanova, N. A.

Title : Photo-decomposition of pentachloroethane

Periodical : Zhur. ob. khim. 24/10, 1771-1775, Oct 1954

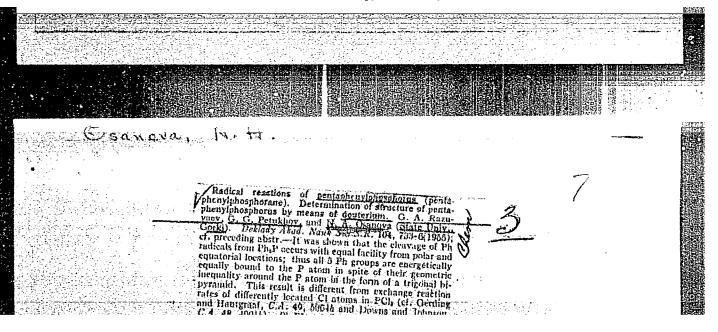
The results obtained by exposing pentachloroethane to the effects of ultraviolet ray radiation are described. The complete reaction scheme, beginning with the separation of the elementary Cl-atom from the pentachloroethane, and the formation of tetrachloroethyl-radicals, which are finally dimerized into octachlorobutane, is explained. The separated Cl chlorinates the basic pentachloroethane and the formed octachlorobutane up to the ion- and decachlo-

robutane. Eleven references: 7-USA; 2-USSR and 2-German (1940-1953).

Institution : State University, Gorkiy

Submitted : Pebruary 10, 1954

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00123{



RAZUVAYEV, G.A.; OSANOVA, N.A.

Pentaphosphenyl. Zhur.ob.khim. 26 no.9:2531-2537 5 '56.

(MLRA 9:11)

1. Gor'kovskiy gosudarstvennyy universitet. (Phosphenyl)

OSANOVA, N. A. Cand Chem Sci -- (diss) "Study of EXEXNENNEX

Pentaphenylphosphorus." Gor'kiy, 1957. 7 pp 20 cm. (Gor'kiy State

Univ im N. I. Lobachevskiy), 100 copies (KL, 26-57, 105)

5(3)

30V/79-29-9-38/76

AUTHORS:

Razuvayev, G. A., Petukhov, G. G., Osanova, N. A.

TITLE:

Investigation of the Reactions of Pentaaryl Phosphorus. Determination of the Equivalence of the Groups by Means of Deuterium

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 9, pp 2980-2983 (USSR)

ABSTRACT:

The investigation of the reactions of pentaaryl phosphorus with deuterium in a phenyl group in benzene- or chloroform solution showed that the separation of both the polar and the equatorial phenyl groups takes place equally easily and with radical mechanism (Ref 1). The problem arose whether in ionic separation of pentaphenyl phosphorus the equivalence of the polar and equatorial phenyl groups was maintained. The reaction of pentaphenyl phosphorus with hydriodic acid (Ref 2) and acetic acid (Ref 1) is known to be an ionic reaction. The reactions of this phosphorus compound containing deuterium in a phenyl group with the above acids actually showed that the equivalence of the polar and equatorial groups is also observed in the course of an ionic reaction. The quantity of deuterium in dinitrobenzene obtained from the separated phenyl groups amounts to approximate-

Card 1/3

ly 1/5 of the total quantity of deuterium in pentaphenyl phos-

SOV/79-29-9-38/76 Investigation of the Reactions of Pentaaryl Phosphorus. Determination of the Equivalence of the Groups by Means of Deuterium

phorus as may be seen from the data of table 1 (experiments 1,2). J. Wittig substituted the p-tolyl group for a phenyl group and found in the reaction of tetraphenyl tolyl phosphoras with hydrobromic acid (Ref 2) that besides benzene and toluene a mixture of triphenyl-p-tolyl- and tetraphenyl phosphonium bromide results (3:1). Information on the ratio of benzene to toluene is, however, missing in his report as well as the method of determining the ratio of the salts in the reaction products. The authors assumed that such a ratio of the separated phenylto the tolyl groups with tagged atoms could be determined. For this purpose a tetraphenyl-p-tolyl phosphorus with a deuterium atom in the cycle of the tolyl group was synthesized and caused to react with hydrobromic acid, chloroform, and alcohol. The table (columns 5,9) gives data on the distribution of deuterium in products obtained from the separated radicals, and in the radicals which remained linked to the phosphorus, on the assumption of equivalent separation of the tolyl- and phenyl groups. A comparison of these data with those experimentally ob-'tained (Table, experiment 3) shows that in ionic reactions (in

Card 2/3

sov/79-29**-**9-38/76

Investigation of the Reactions of Pentaaryl Phosphorus. Determination of the Equivalence of the Groups by Means of Deuterium

this case in the reaction with HBr (Table, experiment 3)) there is no difference in the rate of separation between the tolyland phenyl groups of tetraphenyl-p-tolyl phosphorus. In chloroform, where the reaction takes place according to the radical mechanism, separation of the phenyl radicals is predominant (Table, experiments 4,5). There are 1 table and 3 references, 1 of which is Soviet.

ASSOCIATION: Gor'kovskiy gosudarstvennyy universitet (Gor'kiy State Uni-

versity)

SUBMITTED: July 21, 1958

Card 3/3

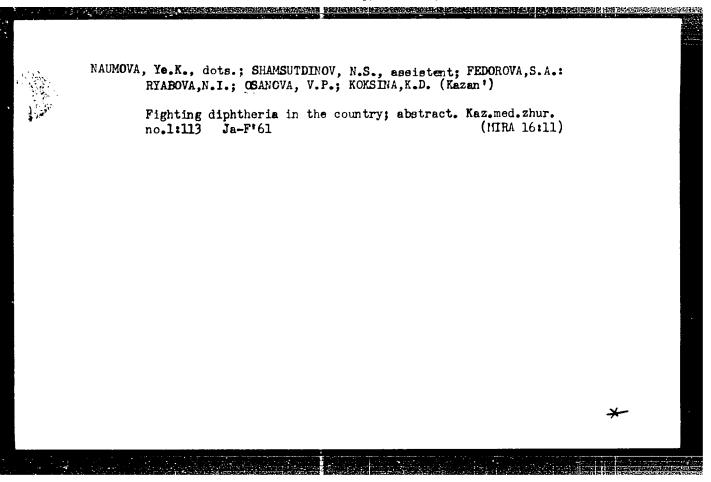
RAZUVAYEV, G.A.; OSANOVA, N.A.; SHULAYEV, N.P.; TSIGIN, B.M.

Radical reactions of pentaphenylantimony. Zhur.ob.khim. 30 no.10:
3234-3237 0 '61. (MIRA 14:4)

1. Gor'kovskiy gosudarstvennyy universitet.
(Antimony organic compounds)

RAZUVAYEV, G.A.; PETUKHOV, G.G.; OSANOVA, N.A.

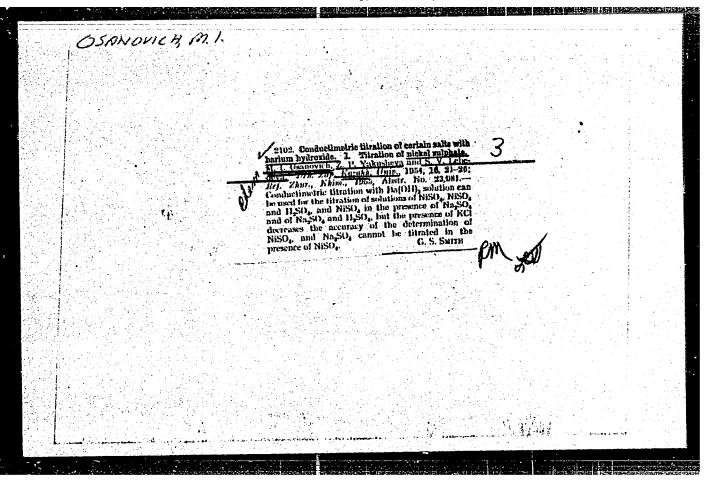
Investigating the reaction of pentaphenyl phosphorus with benzene by means of tagged atoms. Zhur.ob.khim. 31 no.7: 2350-2353 Jl '61. (MIRA 14:7) (Phosphorus organic compounds) (Benzene)

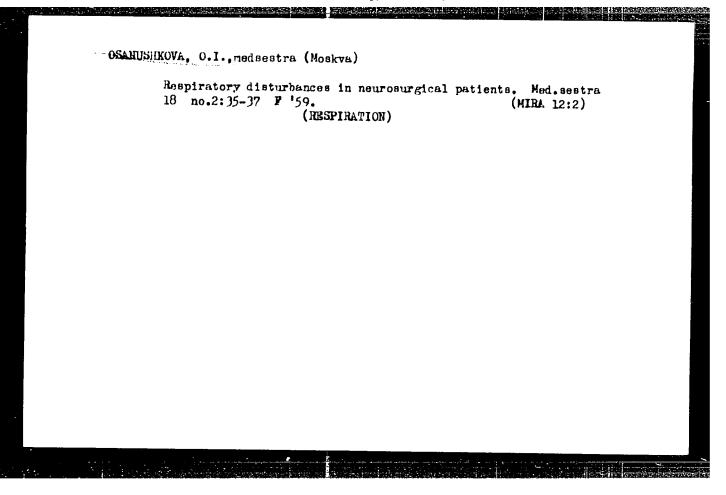


NEMOTICAL N.A. (decreases). NUCLEUM, .e.N.; VAIMAN, Ye.I.; YAKORGEN, U.A.; E.IMINA, T.I.; FED 1..A. C.A.; CONNUMA, V.P.; BLINDYA, L.I.; REALATYA, M.I.

Distribution of enter patrogenic Escherichia coli among various opplation groups in hazar and a me cities of the Tatar A. S. B. Thur. mirrors i.. epid. 1 timin. 41 no. cit45-146 S. M.4. (MIRA 1811)

1. Kazardaria individua; peri logic, mikroniologic i reglyess i Tatardays respublicanskaya saurtara sepitomiologicneskaya atantsiya priiklipisa N...





AGCESSION NR: AP4029204

\$/0226/64/000/002/0032/0033

AUTHOR: Boyko, P. A.; Gryaznov, B. A.; Dubinin, V. P.; Klimenko, V. N.; Kum'monito, V. A.; Osasyuk, V. V.; Radomyksel'skiy, I. D.; Rudenko, V. N.

TITLE: Investigation of the properties of N32D4 high-alloy nickel-copper powdermetal steel

SOURCE: Poroshkovaya metallurgiya, no. 2, 1964, 32-39

TOPIC TAGS: N32D4 steel, high alloy steel, nickel copper steel, powder metal steel, copper containing alloy, nickel containing alloy

ABSTRACT: And minute from the control of properties manufactured by two technologic cal variations. It was shown that the higher pressures of the first pressing and temperature of the first sintering raises the density of the manufactured samples only slightly and has little affect on the strength characteristics in static tests. These results are presented in tables and graphs. In dynamic tests (resiliency, ultimate strength) there is a considerable decrease in the strength of the samples manufactured by the second technological variation which is associated with an increased sensitivity of the dynamic strength characteristics of porosity microtion which is higher in the camples subjected to a first heterom

ACCESSION NR: AP4029204

sintering at low temperature. Orig. art. has: 8 figures and 2 tables.

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ASSOCIATION: Institut problem materialovedeniya AN SSSR (Institute of Material

Behavior Problems, AN SSSR)

SUBMITTED: 13Sep63

DATE ACQ: 28Apr64

ENGL: OC

SUB CODE: ML

1 2/2

NO REF SOV: 005

OTHER: 001

ACCESSION NR: APHO15269

8/0226/64/000/001/0077/0080

AUTHOR: Grigor yeva, V. V.; Dubinin, V. P.; Sergeyenkova, V. M.; Osasyuk, V. V.

TITIE: Rupture strength of a hard chromium carbide alloy

BOURCE: Porochkovaya metallurgiya, no. 1, 1964, 77-80

TOPIC TAGS: cermet, cermet rupture strength, chromium carbide alloy, chromium carbide nickel cermet, refractory alloy, refractory cermet, chromium carbide, alloy rupture strength

ARSTRACT: Cernet specimens (Fig. 1 of Enclosure) containing 8% chronium carbide and 15% nickel were compacted from powders and sintered in hydrogen at 1573K, then subjected to stress rupture tests at 1073 and 1173K for 100 hours. Results plotted gravitally (Fig. 2 of Enclosure) are compared with data for the heat-resistant alloy EI457B and indicate a substantial difference in rupture strength of the two materials at 1073K, which decreases as the temperature is increased to 1173K. Orig. art. has: 3 figures and 1 table.

Cord :/A

"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001238

ACCESSION IN: APRO15269

ASSOCIATION: Institut problem materialovedeniya AN UkrSSR (Institute for Problems in the Science of Materials AN UkrSSR)

BUBMITTED: 249ep63

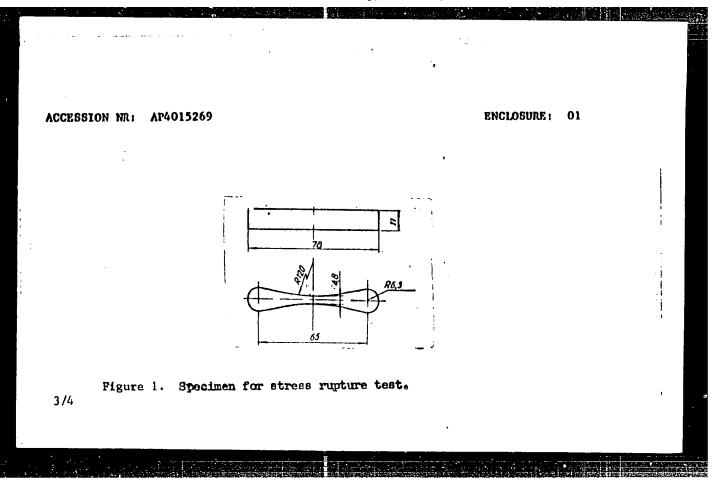
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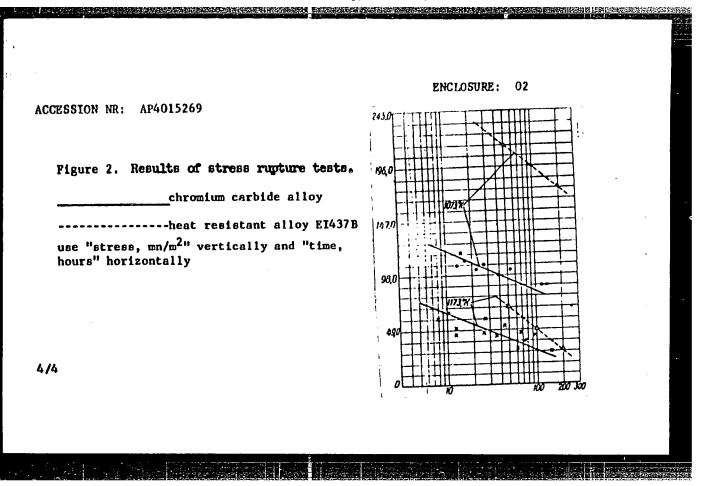
SUB CODE: MM

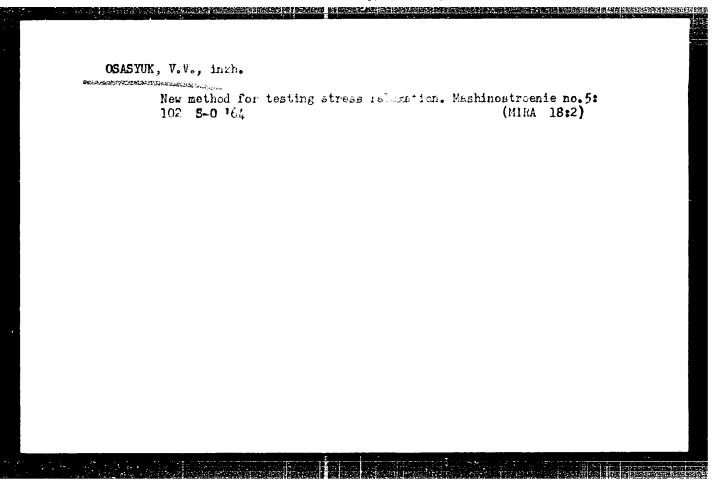
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OTHER: 000

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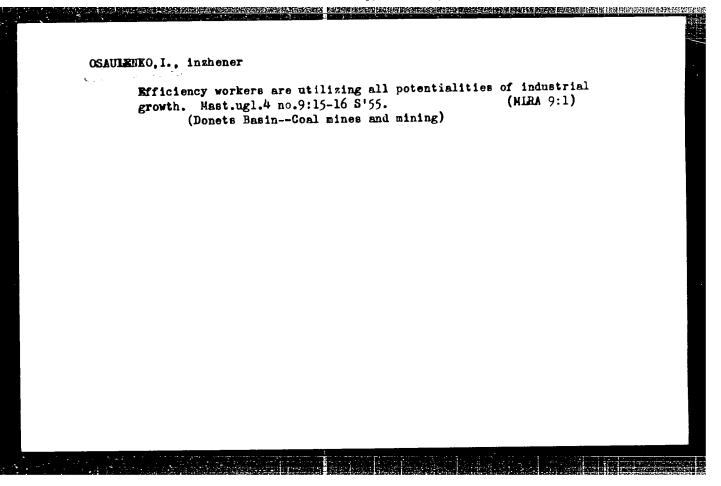






People of initiative and capability. Sov. profsoiuzy 15 nc.11:8 Je 1/2. (MIR: 15:6) 1. Predsedatel' oblastnogo komiteta profsoyuza rabotnikov gosudarstvennykh uchrezhdeniy, g. Vladimir. (Vladimir Province—Trade unions) (Vladimir Province—Officials and employees)

OSAULENKO, I. Do not stop at achievements Mast. ugl. 3 no.12:18 D '54. (MLRA 8:6) 1. Machal'nik otdela truda i zarabotnoy platy tresta Ordzhonikidzeugol! (Goal mines and mining)



KOSHELEV, Konstantin Vasil'yevich; DOLZHENKO, Vladimir Ivanovich;
OSAULENKO, Ivan Yemel'yanovich; YATSENKO, Vladimir Dmitriyevich;
KHANIN, Aleksey Mikhaylovich; FEDOROVA. A.M., red.; KRASCVSKIY,
I.P., red. izd-va; LOMILINA, L.N., tekhn. red.

[Timbering permanent workings of deep shafts] Kreplenie kapital'nykh vyrabotok glubokikh gorizontov shakht. Pod red. A.M. Fedorova. Moskva, Gosgortekhizdat, 1963. 75 p. (MIRA 16:7) (Mine timbering)

KOSHELEV, K.V., kand.tekhn.nauk; OS.ULENKO, I.Ye., inzh.; LOSEV, N.T., inzh.

Rock pressure in major workings of deep mines. Ugol' Ukr. 7
no.11:15-17 N '63. (MIRA 17:4)

1. Institut gornoy mekhaniki i tekhnicheskoy kibernetiki.

CISAULENKO, TL

AUTHOR:

Osaulenko, P.L., Mining Engineer

127-53-5-7/30

TITLE:

Improvement of Direct Cuts in the Mines of the Apatit Combine (Sovershenstvovaniye pryamykh vrubov na rudnikakh

kombinata Apatit)

PERIODICAL:

Gornyy Zhurnal, 1958, Nr 5, pp 26-28 (UJSR)

ABSTRACT:

Direct cuts are used in the apatite mine imeni Kirov for drifting horizontal and sinking vertical workings. Approximately 70% of the operations are carried out in rocks of 6 to 8 hardness coefficient, and 30% in rocks of 8 to 12 hardness coefficient - by Professor Protod'yakonov's scale. At present, several varieties of direct cut are used. The most efficient method is as follows: the cutting-shot-hole is drilled to a depth of over twice the depth of the other shot-holes of the set. It is charged over its full length and is blasted together with the other holes. The section remaining after the blast serves as a ready cut for the next set of shot-holes and is not charged anew. The diagram showing the distribution of shot-holes in this method is presented in Figure 3. This method of direct cut, with an advancing shot-hole also has some drawbacks, but work on its improvement is being continued in

Card 1/2

127-58-5-7/30

Improvement of Direct Cuts in the Mines of the Apatit Combine

the Apatit Combine, to achieve 4 to 5 m of face advance-

ment during one cycle of blasting operations.

There are 4 figures.

ASSOCIATION: Nauchno-issledovatel'skaya laboratoriya kombinata Apatit

(Scientific Research Laboratory of the Apatit Combine)

AVAILABLE: Library of Congress

Card 2/2 1. Mines-Blast effects 2. Mines-Improvement 3. Mines-Development

OSAULENKO, P.L., gorny inzh.; ROZINOYER, B.L., gorny inzh.; PERMYAKOV, R.S., gorny inzh.

Breaking of ore in deep holes without corresponding free space.

Gor. zhur. no.4:9-11 Ap '60. (MIRA 14:6)

1. Kombinat Apatit, Kirovsk, Murmanskoy obl. (Mining engineering)

OSAULENKO, P.L., gornyy inzh.; ROZINOYER, B.L., gornyy inzh.; ABAKUMOV, R.A., gornyy inzh.; PAPKOV, A.V., gornyy inzh.

Practice of charging upward holes in the Kirov apatite mine. Gor. zhur. no.3:63-64 Mr '63. (MIRA 16:4)

l. Nauchno-issledovatel'skaya laboratoriya kombinata "Apatit", g. Kirovsk.

OSAULENKO, P.L., gornyy inzh.; ROZINOYER, B.L., gornyy inzh.; SUKHODREV, V.M., gornyy inzh.

Practice of upward drilling of holes in the Kirov apatite mine. Gor. zhur. no.7:29-31 Jl '63. (MIRA 16:8)

Kombinat "Apatit".

LITVINOV, I.D., gornyy inzh. [deceased]; VLASOV, G.Yu., gornyy inzh.;
OSAULENKO, P.L., gornyy inzh.; HGZIRYER, B.L., gornyy inzh.

Development of breaking methods in mines of the "Apatit"
Combine. Gor. zhur. no.ll:3-7 N '63. (MIRA 17:6)

1. Kombinat "Apatit."

KABAK, K.S. (Kiyev, Brest-Litovskoye shosse, d.82); KOLOMIYTSEV, A.K. (Kiyev, Brest-Litovskoye shosse, d.82); OSAULENKO, V.Ya. (Kiyev, Brest-Litovskoye shosse, d.82); CHERNOV, O.V. (Kiyev, Brest-Litovskoye shosse, d.82)

Reaction of the peripheral nerves of the skin to synthetic suture material. Nov. khir. arkh. no.5:92-95 S-0 *60. (MIRA 14:12)

1. Kafedra gistologii 1 embriologii (zav. - zasluzhennyy deyatel¹ nauki, chlen-korrespondent AN SSSR prof. N.I.Zazybin) Kiyevskogo meditsinskogo instituta.

(SKIN--INNERVATION) (SUTURES)

OSAULEIKO, V. Ya.

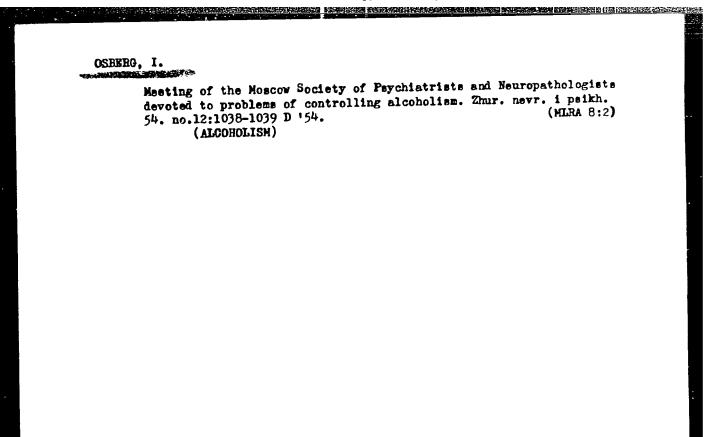
Effect of therapeutic doses of mercusal on the motor innervation of skeletal muscles. Vrach. delo no.2:90-94 F'64 (MIRA 17:4)

1. Kafedra gistologii i embriologii (zav. - zasluzhennyy deyatel nauki chlen-korrespondent AMN SSSR prof. N.I.Zazybin) Kiyevskogo meditsinskogo instituta.

- 1. OSAULENKO, YE. I. RYUMIN, I. M. ENG.
- 2. USSR (600)
- 4. Plastering
- 7. Plastering work in below freezing weather. Biul. stroi. tekh. 9 no. 19, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

OSAULKO, G.K. Application of honey in omular practice. Vest.oft. 32 no.3:35-36 ½y-Je '53. (NLRa 6:8) 1. Glaznoye otdeleniye Odesskoy oblastnoy klinicheskoy bol'nitsy. (Honey--Therapeutic use) (Eye--Diseases)



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GALENKO, V.E.; OSHKRG, I.Yu.; AZEUKINA, V.D.

Use of aminazine in psychiatric clinics. Sov. med. 20 no.1:29-35
Ja '56. (MLRA 9:5)

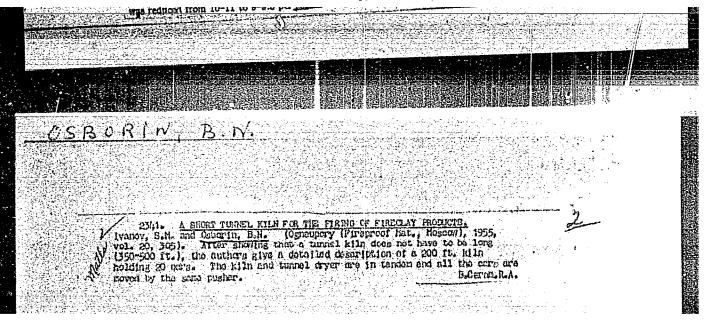
1. IE Hauchno-is-fledovatel'skogo instituta psikhiatrii (dir. D.D.
Fedotov, nauchnyy rukovoditel'-prof. V.A. Gilyarovskiy) Ministerstva zdravookhraneniya SSSB.

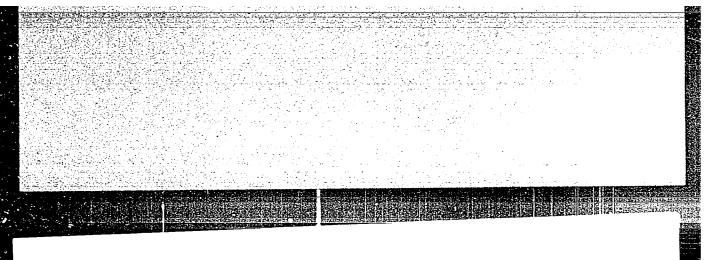
(MRNTAL DISORDERS, ther.
chlorpromazine)
(CHICRPROMAZIUE, ther. use
mental disord.)
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DESCRIPTION OF THE PROPERTY OF

OSBERG, I. Yu.

Clinical electrophysiological studies of perchiatric patients under aminarines treatment. V. B. Galenko, I. Yuji idents under aminarines treatment. V. B. Galenko, I. Yuji idents under aminarines treatment. V. B. Galenko, I. Yuji Osherg, I. S. Rabiner, and G. M. Frankel (Inst. Psychiatry Ministry Health U.S.S.R., Moscow). Zhur. Newopalol, I. Prikkiatrii im. Kortakon 56, 900-6(1954).—Texts were patient in the copression psychotics, I. presentle psychotics, I. manie depression psychotic, I. with obstruction neurogic (fixed idens), and 2 normal control individuals. A 3-zeid (fixed idens), and 2 normal control individuals. A 3-zeid brain oscillograph was used. The leads were attached in a unit or hippoint manner to points of the following regions of the head: frontal, templar, parietal and occipital. Patients were then given aminarine injections intramuscularly (20-10) ing.). Bucophalograms were finde at 10-min. 18; templar for 1-2 hrs. Several days later the treatment and recording were reinstituted and continued through the course of the exptl. aminazine therapy. For control purposes encephalograms were made prior to the initiation of the drug therapy. The encephalograms indicated a normalization of the drug therapy. The encephalograms indicated a normalization of the elec. activity of the brain cortex ran parallel recurses. A similarity was found between the immediate of fects of aminazine on the elec. activity of the hrain cortex ran parallel recurses. A similarity was found between the hrain cortex of fects of aminazine on the elec. activity of the hrain cortex for the price of the price of the price of the experience on the elec. activity of the hrain cortex for the fects of aminazine on the elec. activity of the hrain cortex for the fects of aminazine on the elec. activity of the hrain cortex for the fects of aminazine on the elec. activity of the hrain cortex for the fects of aminazine on the elec. activity of the hrain cortex for the fects of the fects activity of the hrain cortex for the fects of aminazine





Neurology

CZECHOSLOVAKIA

NADVORNIK, P.; OSCADAL, A.; CERMY, J.; Neurosurgical Clinic, Medical Maculty, Charles University (Neurochirurgicka Klinika Lek. Fak. KU), Hradec Kralove, Head (Prednosta) Prof Dr R. PETR; Neurological Department Okresni Institute of National Health (Neurological Department Okresni Institute of National Health (Neurologicke Odd. OUNZ), Havlickuv Brod, Head (Vedouci) Dr A. OSCADAL.

"Diencephaloschisis."

Pracue, Ceskoslovenska Neurologie, Vol 29, No 5, Sep 66, pp 331 - 332

APPROVED FOR RELEASE Mednesday, June 21 2000 halo rape 25 00 513R00123 has trace anomaly of the brain; in the past it was known only from autopsies. The authors describe a live patient, in whom the disease was diagnosed by pneumoencephalographic examination. Its ease was diagnosed by pneumoencephalographic examination. Its manifestations are similar to suprasellar expansion; this is different from the fissure of the hypothalamus. 1 Figure, 1 Western reference.

no vous : nos anur - Biologiya, No 2, 1959, No. 716

Author : Cschmann, Hans

Inst Not given

Title : Apiculture in the German Democratic Republic

Orig Pub : Pszczclarstvo, 1958, 9, No 2, 52-53

Abstract : No abstract given

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CZECHOSLOVAKL./Far. .mirmls. Money Bec.

Abs Jour: Ref Zhur-Biol., No 20, 1956, 92661.

.uthor : Osch.mnn, H.

: Institute of Veterinary Parasitology of Musboldt Inst

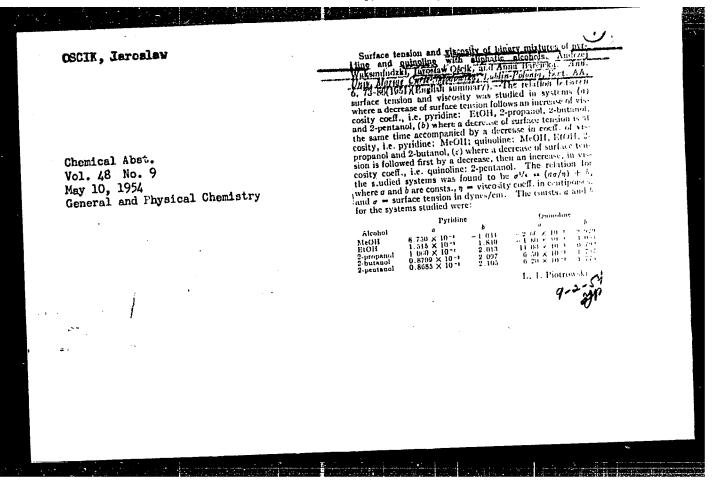
: Development of Apleulture in the German Democratic Title

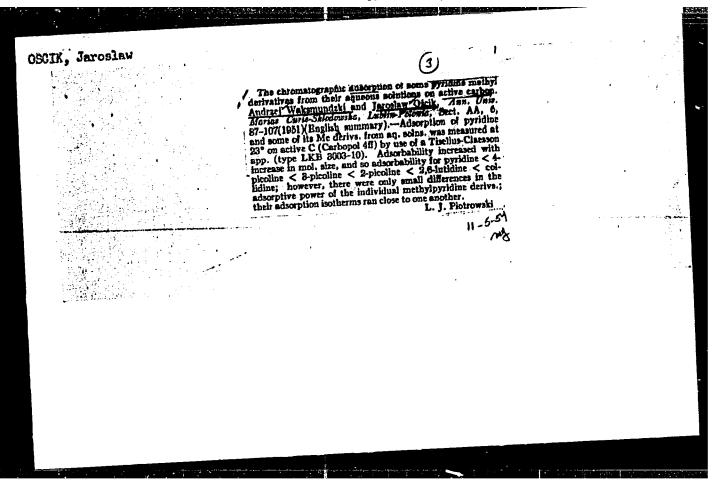
Republic (GDI.).

Orig Pub: Vcelarstvi, 1958, 31, No 1, 8-9.

.bstract: Apiculture in Germany has remained somewhat anateurish up to the very present. This is confirmed by the unusual variety in apiary inventory and equipment. The socialized sector covers only $\mathbf{1}_{P}^{o}$ of the apiaries. A single privately owned apiary has on an average 10 families (50000 apiary owners have 550000

Card: 1/2





Chemical Abst.

Vol. 48 No. 9

May 10, 1954
General and Physical Chemistry

Chemistry

Chemical Chemistry

Chemical Abst.

Vol. 48 No. 9

May 10, 1954
General and Physical Chemistry

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Chemical Abst.

Vol. 48 No. 9

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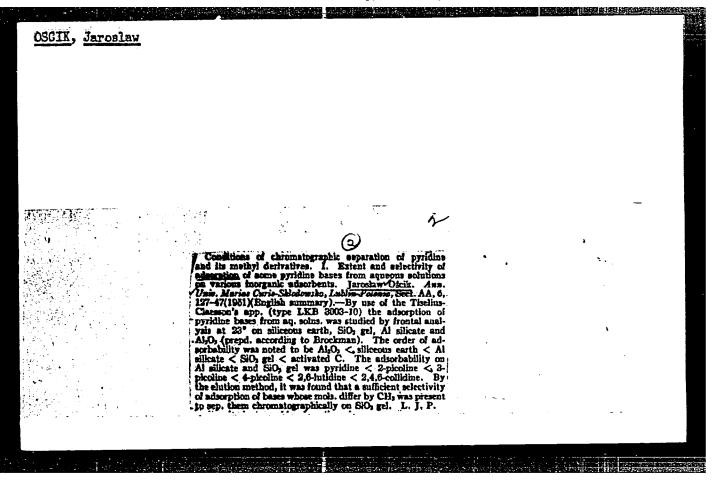
Chemical Abst.

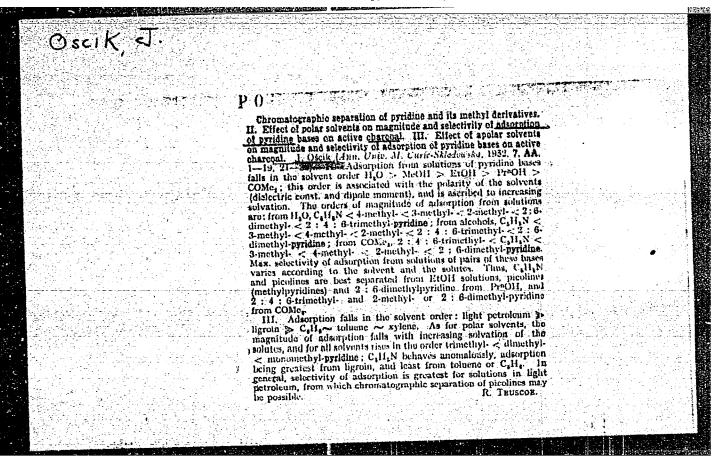
Vol. 48 No. 9

May 10, 1954

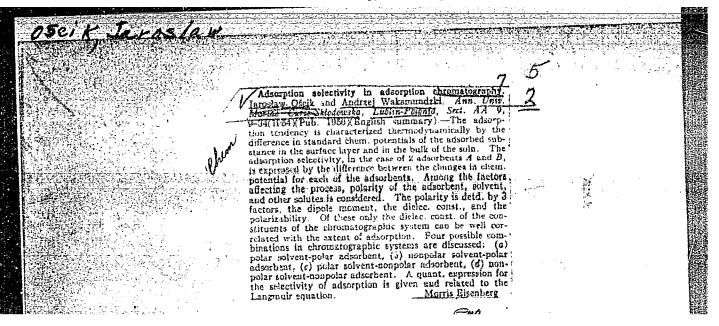
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OSCIK, J. *Using an is	nterferome omosci che	eter in resea	arches on ads. 7, No. 1, J	orption and in chroman. 1953, Wroclaw,	matographic ana	lysis"
p. ,,						
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U, June , Survey

Category: Poland/Analytical Chemistry - Analysis of organic

substances.

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 31061

Author : Waksmundzki Andrzej, Oscik Jaroslaw, Frelek Zbigniew

Inst : M. Curie-Sklodowska University

Title : Paper Chromatography of Nitrotoluidines. I. Separation and

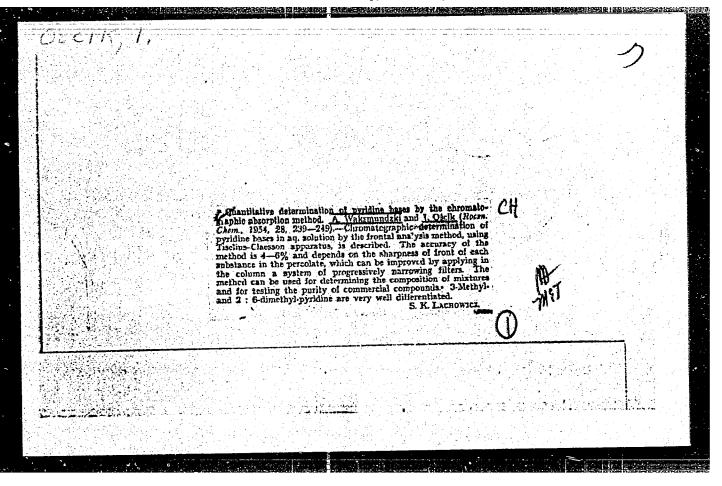
Identification of Isomeric Mononitro-Derivatives of p-Toluidine.

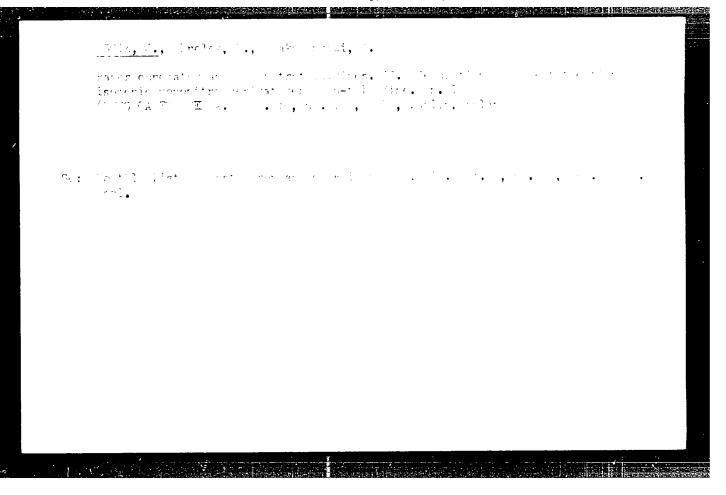
Orig Pub: Ann. Univ. M. Curie-Sklodowska, 1954 (1956), AA9, No 1-9, 83-89

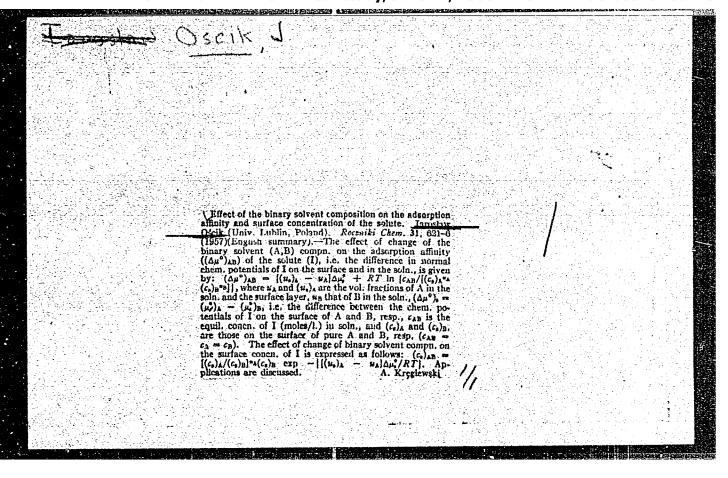
Abstract: On strips (23 x 8.5 cm) of No 3 Whatman paper are placed 5-10 /

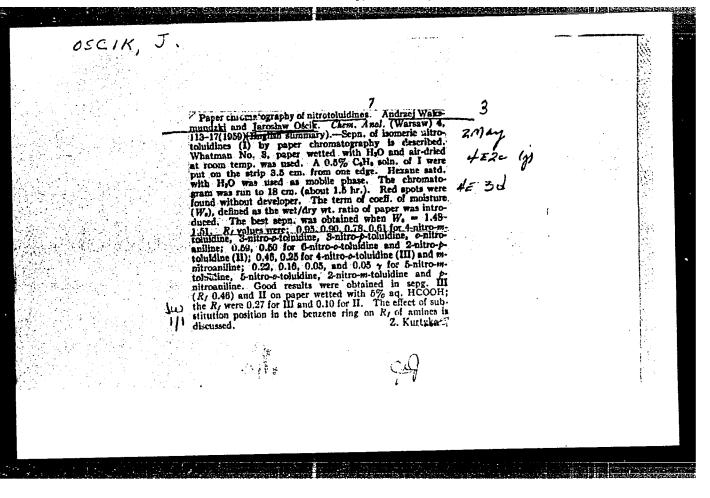
of the substance under study, in the form of a 0.5% solution in C_bH_b , at a distance of 3.5 cm from the bottom edge. Chromatography is carried out using n-hexane as the solvent (duration of chromatography is of about 90 minutes). On using paper of usual moisture content long tails are formed. Best results are obtained with paper having a moisture coefficient (ratio of weight of moist and dry paper) of 1.48-1.51. Ry are obtained for 3-nitro-o-nitrotoluidine (0.90), 4-nitro-o-toluidine (0.46),

Card : 1/2 -7









OSCIK, J.; WAKSMUNDZKI, A.

Paper chromatography of nitrotoluidines. p. 113.

CHIMIA ANALITYCZNA. Warszawa, Poland. No. 8, August 1959.

Monthly List of East European Accessions (FEAI) LC, Vol. 8, No. 11 November 1959.

Uncl.

OSCIK, Jaroslaw

Adsorption from multicomponent solutions. Pt. 3. Isoterms od aniline adsorption from 3-, 4-, and five-component mixtures. Przem chem 39 no.5:279-282 My '60.

1. Katedra Chemii Fizycznej, Uniwersytet im. Harii Curie-Sklodowskiej, Lublin

OSCIK, J.

Adsorption from multicomponent solvent and from its single components. Bul chim PAN 9 no.1:29-31 '61.

1. Department of Physical Chemistry, M. Curie-Sklodowska University, Lublin, Presented by B. Kamienski.

OSCIK, J.

Surface concentration of a substance adsorbed from a multicomponent solution and from binary solutions. Bul chim PAN 9 no.1:33-35 '61.

1. Department of Physical Chemistry, M. Curie-Sklodowska University, Lublin. Presented by B. Kamienski.

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WARSMUNDZKI, Andrzej; OSCIK, Jaroslaw; MATUSEWICZ, Jamusz; NASUTO, Romuald; ROZYLO, Jan

Structure of silica gels, specifically adsorbing pyridine, quinoline and acridine. Pt. 1. Przem chem 40 no.7:387-390 Jl *61.

1. Katedra Chemii Fizycznej, Uniwersytet im. M. Curie-Sklodowskiej, Lublin.

and the second s

MASUTO, Romuald; WAKSMUNDZKI, Andrzej; OSCIK, Jaroslaw; ROZYIO, Jan

The heat of wetting specifically active silica gels with some organic solvents. Przem chem 40 no.8:432-433 Ag '61.

1. Katedra Chemi Fizycznej Uniwersytetu im M. Curie-Sklodowskiej Lublin.

WAKSMUNDSKI, Andrzej; OSCIK, Jaroslaw; NASUTO, Romuald; ROZYLO, Jan

The structure of pyridine adsorption layers on silicagels specifically activated in respect to some heterocyclic bases. Przem chem 40 no.9: 527-529 S 161.

1. Katedra Chemii Fizycznej, Uniwersytet im. Curie-Sklodowskiej, Lublin.

WAKSMUNDSKI, Andrzej; OSCIK, Jaroslaw; ROZYLO, Jan; NASUTO, Romuald

Energetic effects of pyridine adsorption on silicagels specifically activated with respect to some heterocyclic bases. Przem chem 40 no.10:565-567 0 '61.

1. Katedra Chemii Fizycznej, Uniwersytet im. M. Curie-Sklodowskiej, Lublin.

WAKSMUNDZKI, Andrzej; OSCIK, Jaroslaw; ROZYIO, Jan; N'SUTO, Romuelé

Influence of the drying conditions of hydrogels on the change of the adsorption capacity of specific silicagels. Przem chem 41 no.3:129-

1. Kntedra Chemii Fizycznej Uniwersytetu im. Marii Curie Sklodowskiej

WAKSMUNDZKI, Andrzej; ROZYLO, Jan; OSCIK, Jaroslaw

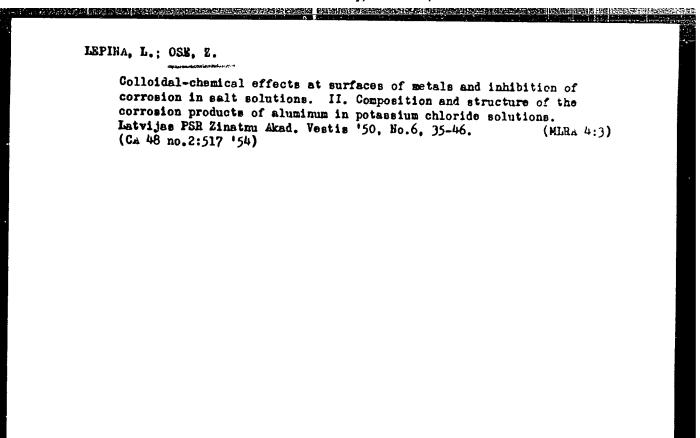
Thin-layer chromatography of nitroanilines. Chem anal 8 no.6: 965-970 '63.

1. Department of Physical Chemistry, M.Curie-Sklodowska University, Lublin.

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Micsccicova

"Results of the uniffication of the circums@ription and it'stactur?
Tr. from Russian p.90 (IMMENE CMANC-DOVI. TITL. DUTA LITTLE C. 6, No. 3, May/June 1953 Bucaresti, Rumania)

So: East Myr. CM., LC, No. 12, Vol. 2, Dec. 1953
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1. OSE, Z: LIYEPINA, L.: STIPRAYS, A.: VAYVADE, A.

- 2. USSR (600)
- 4. Corrosion and Anticorrosives
- 7. Colloid-chemical phenomena on the surface of metals and inhibition of corrosion in salt solutions. Latv.PSR Zin.Akad.Vestis, no. 8, 1951.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

OSEARA, M.

Organization of work protection in the management of road construction s; the laying of bituminous road sur aces. p. 190. (Instytut Techniki Tudowianj) Warszawa, Foland.

ol. 10, no. 8, Aug. 1959

So. East European Accessions List ol. 5, no.1, Jan. 1956

CSECHRESKAYA, G.V.

Prothrombin production function of the liver in patients with leukosis. Klin.med., Moskva no.4:91 Ap '50. (CIML 19:3)

1. Of the Hematological Clinic (Head -- Prof. Kh. Kh. Vlados, Corresponding Member of the Academy of Medical Sciences USSR), Central Order of Lenin Institute of Hematology and Blood Transfusion (Director-Prof. A.A.Bagdasarov, Corresponding Member of the Academy of Medical Sciences USSR).

Cocchenstaya, Gl.

VLADOS, K.H.; OSECHENSKAYA, G.V.; BELOUSOV, A.P.

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